

An Anthology of Applied Computer Technologies

**Zulkefli Muhammed Yusof
M.M Hafizur Rahman**



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ABSTRACT

Nowadays, the rate of accident in Malaysia seems to be increased from year to year especially during the festival time. One of the main reasons that can be lead to the accident is diver behavior. Emotion plays an important role in the study of driver behavior. In this work, three tasks of different environments in the driving simulation have been used; this is to identify driver's pre-emotion and post-emotion through different driving environment. In order to get the result, Multi-Layer Perceptron (MLP) was used in the preprocessing stage. The results of this paper show the distribution of drivers' perception on a priori and post priori of accidents based on different driving environment.

10.1 INTRODUCTION

Every day we can hear and read the news about road accidents that happen all the time. Malaysia is known as a country which has a good road system in the world. Unfortunately, at the same time it also has the high rate of accidents.